

provided a data processing method for application layer based on a predetermined protocol composed of at least a lower layer and an application layer, which the method includes the steps of: receiving a predetermined primitive from an upper application software; generating a communication cycle identifier (CycleID) according to the primitive; generating a service description according to the primitive and the communication cycle identifier (CycleID); composing an application layer protocol data unit (APDU) including the primitive; and transmitting the APDU to the lower layer.

## 10 BRIEF DESCRIPTION OF THE DRAWINGS

Fig. 1 is a structure view illustrating a home network system in accordance with the present invention;

Fig. 2 is a structure view illustrating a living network control protocol stack in accordance with the present invention;

15 Figs. 3 and 4 are structure views illustrating interfaces between layers of Fig. 2, respectively;

Figs. 5 to 10 are detailed structure views illustrating the interfaces of Figs. 3 and 4, respectively;

20 Figs. 11 and 12 are structure views illustrating primitives for transmitting data exchanged between the layers;

Figs. 13 to 15 illustrate structures of request messages, respectively;

<sup>16 to 19</sup>  
Figs. ~~16 to 18~~ illustrates structures of response messages, respectively;

Fig. 20 is a flow chart for explaining a data processing method for application layer in accordance with a first embodiment of the present invention;

25 Fig. 21 is a flow chart for explaining a data processing method for application layer in accordance with a second embodiment of the present